|                   |      |     |            |          |    |           |          |           |               |                |               | -        |          |           |  |     |                   |    |          |   |          |     |              |    |
|-------------------|------|-----|------------|----------|----|-----------|----------|-----------|---------------|----------------|---------------|----------|----------|-----------|--|-----|-------------------|----|----------|---|----------|-----|--------------|----|
| H <sub>2</sub> n+ | -₁Cn | -X- | F <u>,</u> | <u>\</u> | :N | •         | {        |           | <i>&gt;</i> - | –o,<br>∕       | <b>&gt;</b> - | $\prec$  |          | $\rangle$ | —1                                     | H₂n | Ո+ <sub>1</sub> ՝ | Cm |          |   |          |     |              |    |
| n                 | 8    | 8   | 8          | 8        | 8  | 8         | 8        | 9         | 9             | 9              | 9             | 9        | 9        | 9         | 9                                      | 9   | 10                | 10 | 10       | 10  | 10       | 10  | 10           | 10 |
| m                 | 3    | 4   | 6          | 7        | 8  | 9         | 10       | 3         | 4             | 5              | 6             | 7        | 8        | 9         | 10                                     | 11  | 3                 | 4  | . 5      | 6   | 7        | / 8 | 9            | 10 |
| X                 | -    | -   | -          | -        | -  | -         | -        | -         | -             | <del>  -</del> | -             | -        | -        | -         | -                                      | -   | -                 | -  | -        | -   | -        | -   | <del> </del> | -  |
|                   | _    |     | <u>-L</u>  |          | ·  | <b>-1</b> |          | 1         | <u></u>       |                | L             | <u></u>  | 1        |           | ــــــــــــــــــــــــــــــــــــــ | .L  |                   |    | <u> </u> | <u>'                                     </u> | <u></u>  | Ь-  |              | 1  |
| n                 | 11   | 11  | 11         | 11       | 11 | 11        | 11       | 11        | 11            | 12             | 12            | 12       | 12       | 12        | 12                                     | 12  | 12                | 12 | 13       | 13  | 13       | 13  | 13           | 13 |
| m                 | 3    | 4   | 5          | 6        | 7  | 7         | 8        | 9         | 10            | 3              | 4             | 5        | 6        | 7         | 8                                      | 9   | 10                | 11 | 3        | 4   | 5        | 6   | 7            | 8  |
| X                 | -    | -   | -          | -        | -  | -         | -        | -         | -             | -              | -             | -        | -        | -         | -                                      | -   | -                 | -  | -        | -   | -        | -   | -            | -  |
|                   |      |     |            |          |    |           | <u> </u> | <b></b> - |               |                | <b></b>       | <u> </u> | <u> </u> | •         |  |     | <u></u>           |    | ·        |   | <u> </u> |     |              |    |
| n                 | 13   | 13  | 13         | 14       | 14 | 14        | 14       | 14        | 14            | 14             | 14            | 7        | 7        | 7         | 7                                      | 7   | 7                 | 7  | 7        | 7   | 8        | 8   | 8            | 8  |
| m                 | 9    | 10  | 11         | 3        | 4  | 5         | 6        | 7         | , 8           | 9              | 10            | 3        | 4        | 5         | 6                                      | 7   | 8                 | 9  | 10       | 11  | 3        | 4   | 6            | 7  |
| X                 | -    | _   | -          | -        | -  | -         | -        | -         | -             | -              | -             | 0        | 0        | O         | О                                      | 0   | 0                 | 0  | 0        | 0   | O        | 0   | 0            | О  |
|                   |      |     |            |          |    |           |          |           |               |                |               |          |          |           |  | -   | •                 |    |          | •   |          |     |              |    |
| n                 | 8    |     | 8          | 8        | 9  | 9         | 9        | 9         | 9             | 9              | 9             | 9        | 9        | 10        | 10                                     | 10  | 10                | 10 | 10       | 10  | 10       | 11  | 11           | 11 |
| m                 | 8    | 9   | 10         | 11       | 3  | 4         | 5        | 6         | 7             | 8              | 9             | 10       | 11       | 3         | 4                                      | 5   | 6                 | 7  | 8        | 9   | 10       | 3   | 4            | 5  |
| X                 | 0    | 0   | О          | О        | 0  | Ó         | О        | 0         | О             | О              | 0             | 0        | 0        | О         | О                                      | 0   | 0                 | О  | 0        | O   | 0        | O   | О            | О  |
|                   |      |     |            |          |    |           |          |           |               |                |               |          |          |           |  |     |                   |    |          |   |          |     |              |    |
| n                 | 11   | 11  |            | 11       |    |           | 11       | 12        | 12            | 12             | 12            | 12       | 12       | 12        | 12                                     | 13  | 13                | 13 | 13       | 13  | 13       | 13  | 13           | 13 |
| m                 | 6    | 7   | 8          | 9        | 10 | 11        | 12       | 3         | 4             | 5              | 6             | 7        | 8        | 9         | 10                                     | 3   | 4                 | 5  | 6        | 7   | 8        | 9   | 10           | 11 |
| X                 | О    | O   | О          | O        | О  | О         | 0        | О         | 0             | ō              | o             | О        | О        | 0         | О                                      | O   | О                 | O  | О        | О   | О        | 0   | 0            | 0  |

Compounds of the formula (XXIX), where

| H <sub>2</sub> n+ <sub>1</sub> Cn-X- |   |
|--------------------------------------|---|
| N N                                  | — |

| n | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7  |
|---|---|---|---|---|---|---|---|----|
| m | 7 | 8 | 9 | 4 | 6 | 8 | 9 | 10 |
| X | - | - | 1 | 1 | - | - | - | -  |

| n | 8 | 8  | 9 | 9 | 9 | 9 | 9 | 9 | 9  | 10 | 10 | 10 |
|---|---|----|---|---|---|---|---|---|----|----|----|----|
| m | 8 | 10 | 3 | 4 | 6 | 7 | 8 | 9 | 10 | 8  | 9  | 19 |
| X | - | -  | - | - | - | - | - | - | -  | -  | -  | -  |

| n | 6 | 6 | 6 | 6 | 6 | 6 | 6  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7  |
|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|----|
| m | 3 | 4 | 6 | 7 | 8 | 9 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| X | О | O | О | 0 | O | 0 | О  | O | 0 | O | O | О | О | О | О  |

| n | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8  | 9 | 9 | 9 | 9 | 9 | 9  | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|---|---|---|---|---|---|---|---|----|---|---|---|---|---|----|----|----|----|----|----|----|----|
| m | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 5 | 6 | 7 | 8 | 9 | 10 | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| X | O | О | O | O | О | О | О | О  | О | 0 | О | О | О | O  | О  | О  | О  | О  | О  | 0  | О  |

## Compounds of the formula (XXX), where:

$$H_2n+_1Cn$$
 $S$ 
 $O$ 
 $CmH_2m+_1$ 

| n | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7  |
|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|----|
| m | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| n | 8 | 8 | 8 | 8 | 8 | 8 | 8  | 9 | 9 | 9 | 9 | 9 | 9 | 9  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|---|---|---|---|---|---|---|----|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| m | 3 | 5 | 6 | 7 | 8 | 9 | 10 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |

| n | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| m | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |

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The invention furthermore provides compounds of the general formula (II), selected from compounds of the formula (XXXI), where:

$$H_2n+_1Cn$$
 $O$ 
 $CmH_2m+_1$ 

| n | 10 | 10 | 10 | 10 | 10 | 10  | 10 | 10  | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 |
|---|----|----|----|----|----|-----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| m | 3  | 4  | 5  | 6  | 7  | 8   | 9  | 10  | 11 | 12 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 3  | 4  | 5  | 6  |
| X | -  |    | -  | -  | -  | -   | -  | -   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
|   |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |    | •  |    | •  |    |    |    |
| n | 12 | 12 | 12 | 12 | 12 | 12  | 13 | 14  | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
| m | 7  | 8  | 9  | 10 | 11 | 12  | 3  | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| X | _  | •  |    | -  | -  | -   | -  | -   | -  | -  | -  | -  | -  | -  | -  | -  | О  | О  | 0  | 0  | О  | О  | 0  | 0  |
|   |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| n | 6  | 6  | 7  | 7  | 7  | 7   | 7  | 7   | 7  | 7  | 7  | 7  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 9  | 9  | 9  |
| m | 11 | 12 | 35 | 4  | 5  | 6   | 7  | 8   | 9  | 10 | 11 | 12 | 3  | 4  | 5  | 6  | 8  | 9  | 10 | 11 | 12 | 3  | 4  | 5  |
| X | 0  | О  | 0  | О  | 0  | 0   | 0  | 0   | О  | O  | 0  | О  | О  | О  | 0  | О  | О  | О  | О  | О  | 0  | О  | О  | O  |
|   |    | "  |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| n | 9  | 9  | 9  | 9  | 9  | 9   | 9  | 10  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| m | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 3   | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| X | 0  | 0  | 0  | О  | О  | 0   | 0  | О   | О  | О  | O  | 0  | О  | О  | 0  | О  | О  | О  | О  | Ō  | 0  | О  | О  | 0  |
|   |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    | L  |    |    |    |
| n | 11 | 11 | 11 | 12 | 12 | 12  | 12 | 12  | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 |
| m | 10 | 11 | 12 | 3  | 4  | 5   | 6  | 7   | 8  | 9  | 10 | 11 | 12 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 3  |
| X | 0  | О  | 0  | О  | О  | 0   | О  | O   | О  | О  | Ο  | О  | 0  | О  | О  | О  | О  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| n | 14 | 14 | 14 | 14 | 14 | 1.4 | 14 | 141 | 14 |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |
| n |    |    |    | 1  |    |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| m | 4  | 5  | 6  | 7  | 8  |     |    | 11  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| X | O  | O  | O  | 0  | 0  | 0   | 0  | 0   | 0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

Compounds of the formula (XXVIII), where: